DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION (37 CFR 1.63)

Declaration
Submitted
with Initial
Filing

OR

Declaration
Submitted after Initial
Filing (surcharge
(37 CFR 1.16(e))
required)

Attorney Docket Number	42P17412
First Named Inventor	Steven K. Reinhardt
COM	PLETE IF KNOWN
Application Number	
Filing Date	
Art Unit	
Examiner Name	

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below, next to my name.

I believe I am the original and first inventor (if only one name listed below) or an original and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

BUFFERING UNCHECKED STORES FOR FAULT DETI MULTITHREADING SYSTEMS USING SPECULATIV	
(Title of the Invention)	
he specification of which	
☑ is attached hereto.	
OR .	
was filed on (if applicable):	
or as United States Application Numb	
and was amended on PCT International Application Num	(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above.

I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior	Foreign	Application	(s)	:

	n Application(s):						
	oreign Application Number(s)	Cou	ntry	Foreign Filing Date (MM/DD/YYYY)		ority Iaimed	Certified Copy Attached?
					[☐ Yes ☐ No
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Trademark	tion, to prosecute Office connected rrespondence to:			transact all busin			Patent and
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statements were made fine or impr jeopardize	made on information with the knowled isonment, or both the validity of the	ation and bel dge that willfun, under 18 U application o	ief are beli Il false sta J.S.C. 100 or any pate	my own knowled eved to be true; a tements and the lift and that such went issued thereon attition has been file	nd furth ke so m illful fals	ner that the nade are se staten	nese statements punishable by nents may
	SOLE OR FIRS I	INVENTOR	ж ре	andon has been in	eu ioi ii	iis under	signed inventor
Full Name:		/F! 1 4: 1:		teven K. Reinhard		10 00 5:5	
nventor's S	Signature	(First, Midd	ie [if any], F	Camily Name (or Surna Date		t Suffix [if	any])
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Full Name: Inventor's Signatu Residence Ma	Christ (First, Middle [if any], Famoure Arlboro, Massachusetts USA (City, State, Country) 1009 Applebriar Lane Marlboro, Massachusetts 01752 USA INVENTOR: A petition has	Stopher T. Weaver Silvy Name (or Surname), and Suffix [if any]) Date Citizenship USA (Country) Deen filed for this undersigned inventor
Full Name: Inventor's Signatu Residence Ma Mailing Address NAME OF FIFTH Full Name:	Christ (First, Middle [if any], Famoure Arlboro, Massachusetts USA (City, State, Country) 1009 Applebriar Lane Marlboro, Massachusetts 01752 USA INVENTOR: A petition has (First, Middle [if any], Famoure)	Stopher T. Weaver Silvy Name (or Surname), and Suffix [if any]) Date Citizenship USA (Country)
Full Name: Inventor's Signatu Residence Ma Mailing Address NAME OF FIFTH	Christ (First, Middle [if any], Famoure Arlboro, Massachusetts USA (City, State, Country) 1009 Applebriar Lane Marlboro, Massachusetts 01752 USA INVENTOR: A petition has (First, Middle [if any], Famoure)	Stopher T. Weaver Silvy Name (or Surname), and Suffix [if any]) Date Citizenship USA (Country) Deen filed for this undersigned inventor
Full Name: Inventor's Signatu Residence Ma Mailing Address NAME OF FIFTH Full Name: Inventor's Signatu	Christ (First, Middle [if any], Familie Intloro, Massachusetts USA (City, State, Country) 1009 Applebriar Lane Marlboro, Massachusetts 01752 USA INVENTOR: A petition has (First, Middle [if any], Familie	been filed for this undersigned inventor Date City Name (or Surname), and Suffix [if any])
Full Name: Inventor's Signatu Residence Ma Mailing Address NAME OF FIFTH Full Name:	Christ (First, Middle [if any], Famoure Including (First, Middle [if any], Famoure) Including (City, State, Country) 1009 Applebriar Lane Marlboro, Massachusetts 01752 USA INVENTOR:	been filed for this undersigned inventor Date Citizenship USA (Country) been filed for this undersigned inventor City Name (or Surname), and Suffix [if any]) Date Citizenship
Full Name: Inventor's Signatu Residence Ma Mailing Address NAME OF FIFTH Full Name: Inventor's Signatu Residence	Chris (First, Middle [if any], Famoure Interpolation (First, Middle [if any]), Famoure (City , State, Country) 1009 Applebriar Lane Marlboro, Massachusetts 01752 USA INVENTOR: A petition has (First, Middle [if any], Famoure (City , State, Country)	been filed for this undersigned inventor Date Citizenship USA (Country,
Full Name: Inventor's Signatu Residence Ma Mailing Address NAME OF FIFTH Full Name: Inventor's Signatu	Christ (First, Middle [if any], Famoure Including (First, Middle [if any], Famoure) Including (City, State, Country) 1009 Applebriar Lane Marlboro, Massachusetts 01752 USA INVENTOR:	been filed for this undersigned inventor Date Citizenship USA (Country,
Full Name: Inventor's Signatu Residence Ma Mailing Address NAME OF FIFTH Full Name: Inventor's Signatu Residence	Christ (First, Middle [if any], Familie Interport (City , State, Country) 1009 Applebriar Lane Marlboro, Massachusetts 01752 USA INVENTOR: A petition has (First, Middle [if any], Familie (City , State, Country)	been filed for this undersigned inventor Date Citizenship USA (Country,

Appendix A

I hereby appoint with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith, BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP, a firm including: William E. Alford, Reg. No. 37,764; Farzad E. Amini, Reg. No. 42,261; W. Thomas Babbitt, Reg. No. 39,591; Jordan M. Becker, Reg. No. 39,602; Michael A. Bernadicou, Reg. No. 35,934; Roger W. Blakely, Jr., Reg. No. 25,831; R. Alan Burnett, Reg. No. 46,149; Gregory D. Caldwell, Reg. No. 39,926; Cory G. Claassen, Reg. No. 50,296: Thomas M. Coester, Reg. No. 39,637; Mimi D. Dao, Reg. No. 45,628; Stephen M. De Klerk, Reg. No. 46,503; Daniel M. De Vos, Reg. No. 37,813; Sanjeet Dutta, Reg. No. 46,145; Tarek N. Fahmi, Reg. No. 41,402; Thomas S. Ferrill, Reg. No. 42,532; George L. Fountain, Reg. No. 36,374; Adam Furst, Reg. No. 51,710; Angelo J. Gaz, Reg. No. 45,907; Andre M. Gibbs, Reg. No. 47,593; James Y. Go, Reg. No. 40,621; Jason R. Graff, Reg. 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No. 54,391; James H. Salter, Reg. No. 35,668; William W. Schaal, Reg. No. 39,018; James C. Scheller, Reg. No. 31,195; Kevin G. Shao, Reg. No. 45,095; Stanley W. Sokoloff, Reg. No. 25,128; Judith A. Szepesi, Reg. No. 39,393; Edwin H. Taylor, Reg. No. 25,129; Lisa Tom, Reg. No. 52,291; John F. Travis, Reg. No. 43,203; Kerry D. Tweet, Reg. No. 45,959; Mark C. Van Ness, Reg. No. 39,865; Thomas A. Van Zandt, Reg. No. 43,219; Mark R. Vatuone, Reg. No. 53,719; Lester J. Vincent, Reg. No. 31,460; John P. Ward, Reg. No. 40,216; Mark L. Watson, Reg. No. 46,322; Thomas C. Webster, Reg. No. 46,154; Chui-Kiu Teresa Wong, Reg. No. 48,042; and Norman Zafman, Reg. No. 26,250, my patent attorneys, and Chze Koon Chua, 53,831; Brent Vecchia, Reg. No. 48,011 and Lehua Wang, Reg. No. 48,023, my patent agents, with offices located at 12400 Wilshire Boulevard, 7th Floor, Los Angeles, California 90025, telephone (310) 207-3800; and James R. Thein, Reg. No. 31,710, my patent attorney. I also appoint Alan K. Aldous, Reg. No. 31,905; Rob D. Anderson, Reg. No. 33,826; Jay P. Beale, Reg. No. 50,901; Shireen I. Bacon, Reg. No. 40,494; R. Edward Brake, Reg. No. 37,784; Ben Burge, Reg. No. 42,372; Robert H. Chang, Reg. No. 48,765; George Chen, Reg. No. 50,807; Glen B. Choi, Reg. No. 43,546; Kenneth Cool, Reg. No. 40,570; Ted A. Crawford, Reg. No. 50,610; Robert A. Diehl, Reg. No. 40,992; Jeffrey S. Draeger, Reg. No. 41,000; Cynthia Thomas Faatz, Reg No. 39,973; Christopher Gagne, Reg. No. 36,142; Sharmini N. Green, Reg. No. 41,410; Robert Greenberg, Reg. No. 44,133; Bradley Greenwald, Reg. No. 34,341; Jeffrey B. Huter, Reg. No. 41,086; Seth Z. Kalson, Reg. No. 40,670; Peter Lam, Reg. No. 44,855; Issac Lin, Reg. No. 50,672; David C. Lundmark, Reg. No. 42,815; Anthony Martinez, Reg. No. 44,223; Larry Mennemeier. Reg. No. 51,003; Molly A. Mccall, Reg. No. 46,126; Paul Nagy, Reg. No. 37,896; Michael J. Nesheiwat, Reg. No. 47,819; Dennis A. Nicholls, Reg. No. 42,036; Kathy J. Ortiz, Reg. No. 54,351; Lanny Parker, Reg. No. 44,281; Michael D. Plimier, Reg. No. 43,004; Michael Proksch, Reg. No. 43,021; Kevin A. Reif, Reg. No. 36,381; Crystal D. Sayles, Reg. No. 44,318; Russell C. Scott, Reg. No. 43,103; Justin B. Scout, Reg. No. 54,431; Kenneth M. Seddon, Reg. No. 43,105; Mark Seeley, Reg. No. 32,299; Ami P. Shah, Reg. No. 42,143; David Simon, Reg. No. 32,756; Steven P. Skabrat, Reg. No. 36,279; Howard A. Skaist, Reg. No. 36,008; Paul E. Steiner, Reg. No. 41,326; Joni D. Stutman-Horn, Reg. No. 42,173; David Tran, Reg. No. 50,804; John F. Travis, Reg. No. 43,203; Robert G. Winkle, Reg. No. 37,474; Sharon Wong, Reg. No. 37,760; Steven D. Yates, Reg. No. 42,242; Calvin E. Wells; Reg. No. 43,256; Michael Willardson, Reg. No. 50,856 and Charles K. Young, Reg. No. 39,435; my patent attorneys and my patent agents, of INTEL CORPORATION; with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

Title 37, Code of Federal Regulations, Section 1.56 Duty to Disclose Information Material to Patentability.

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any existing claim. The duty to disclose all information. There is no duty to submit information, which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
 - (1) Prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
 - (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
 - (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
 - (1) Each inventor named in the application;
 - (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.
- (e) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information known to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.